

Title (en)

Lithium silicate materials

Title (de)

Lithiumsilikatwerkstoffe

Title (fr)

Matériaux à base du silicate de lithium

Publication

**EP 2305614 A2 20110406 (EN)**

Application

**EP 10013130 A 20040803**

Priority

- EP 04018339 A 20040803
- DE 10336913 A 20030807

Abstract (en)

Lithium silicate materials are described which can be easily processed by machining to dental products without undue wear of the tools and which subsequently can be converted into lithium silicate products showing high strength.

IPC 8 full level

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CPC (source: EP US)

**A61K 6/78** (2020.01 - EP US); **A61K 6/807** (2020.01 - EP US); **A61K 6/818** (2020.01 - EP US); **A61K 6/833** (2020.01 - EP US); **C03C 3/097** (2013.01 - EP US); **C03C 4/0021** (2013.01 - EP US); **C03C 10/0027** (2013.01 - EP US); **C03C 10/0036** (2013.01 - EP US)

Citation (applicant)

- DE 19750794 A1 19990617 - IVOCLAR AG [LI]
- EP 0774993 A1 19970528 - PALERMO FRANCIS X [US]
- EP 0817597 B1 19990908 - WOHLWEND ARNOLD [CH]
- US 2684911 A 19540727 - DONALD STOOKEY STANLEY
- DE 2451121 A1 19750507 - GEN ELECTRIC
- DE 19750794 A1 19990617 - IVOCLAR AG [LI]
- S.D. STOOKEY: "Chemical Machining of Photosensitive Glass", IND. ENG. CHEM., vol. 45, 1993, pages 115 - 118
- M.-P. BOROM; A.M. TURKALO; R.H. DOREMUS: "Strength and Microstructure in Lithium Disilicate Glass-Ceramics", J. AM. CERAM. SOC., vol. 58, no. 9-10, 1975, pages 385 - 391

Cited by

RU2631484C2; AU2012271939B2; RU2611394C2; US9730863B2; US9206077B2; WO2012175615A1; WO2012175450A1; US9125812B2; US10442725B2; US8956987B2; US9604873B2; US10357343B2

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DOCDB simple family (application)

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